

ABSTRACT OF THE DISCLOSURE

3	Waxes prepared from hydrogenated plant oils, such as palm and soybean, are used to
4	render cellulosic materials resistant to water. Unlike cellulosic materials rendered water
5	resistant with waxes obtained using petroleum-derived or synthetic waxes, the water
6	resistant cellulosic materials prepared using this composition are recyclable using
7	conventional paper recycling methods; the composition is dispersible in warm water
8	solutions. Such water resistant materials are characterized by enhanced moisture barrier
9	properties. The compositions have a low iodine value (between 2-5), and melting points
10	between approximately 120-165 degrees F (Mettler Drop Point). The wax comprises a
11	triglyceride whose fatty acids are predominantly stearic acid (C ₁₈) The composition is
12	used as an additive in the manufacture of wax coated boxes and adhesive compounds
13	used in boxboard packaging and manufacturing operations.